

## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 3 1 OCT 2003

	or agent's file reference C00/AA/kdu	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/EP02/00996		International filing date (day/mort 30.01.2002	th/year) Priority date (day/month/year) 30.01.2002			
	l Patent Classification (IPC) or	both national classification and IPC				
Applicant TELEFO	NAKTIEBOLAGET L M I	ERICSSON (PUBL) et al.				
1. This	international preliminary expority and is transmitted to t	kamination report has been prepared he applicant according to Article	ared by this International Preliminary Examining 36.			
2. This	2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
	ANNEXES is about of the description claims and/or drawings which have					
The	These annexes consist of a total of sheets.					
3. This	s report contains indications	relating to the following items:				
1	☑ Basis of the opinion	1				
11	☐ Priority					
l III	☐ Non-establishment	of opinion with regard to novelty,	inventive step and industrial applicability			
IV	☐ Lack of unity of inv	ention				
V	— — — — — — — — — — — — — — — — — — —					
Vi	☐ Certain documents					
VII		he international application				
VII	Certain observation	ns on the international application	!			
Date of su	bmission of the demand	Date	of completion of this report			
05.08.2003		29.	0.2003			
Name and mailing address of the international Autopreliminary examining authority:			orized Officer			
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP02/00996

I.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages				
	1-7		as originally filed			
	Cla	ims, Numbers	•			
	1-12	-	as originally filed			
	1-17	2	as originally filed			
	Dra	wings, Sheets				
	1/3-	3/3	as originally filed			
2.	Witi lang	h regard to the <b>langu</b> guage in which the in	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.			
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:			
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of pub	lication of the international application (under Rule 48.3(b)).			
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).			
3.	Witl inte	n regard to any <b>nucle</b> rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the international application in written form.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.				
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.			
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have r	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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5. □	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 1-12

No: Claims

Inventive step (IS) Yes: Claims 1-12

No: Claims

Industrial applicability (IA) Yes: Claims 1-12

No: Claims

2. Citations and explanations

see separate sheet

### Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 The document US-A-5 946 622 (=D1) was not cited in the international search report. A copy of the document is appended hereto.
- 2 The document D1 is regarded as being the closest prior art to the subject-matter of claim 4, and discloses (cf. Figure 2 of D1) a transmission system (120) comprising a main coupling device (230) and a network of distributed antennas (130, 160) having a cable (260, 270-300) providing a main transmission path, the main coupling device (230) being suitable for coupling the cable to one or more peripheral devices (205', 205"), each of which being suitable for transmission of one or more carrier signals, whereby the network of antennas is divided into first (130) and second (160) networks providing first (270-300) and second (260) main transmission path parts of the main transmission path respectively, the network of antennas further comprising an intermediate coupling device (250) being coupled to the first (270) and second (260) main transmission path parts.
- The feature considered to be new and inventive in view of document D1 relates to 3 the intermediate coupling device comprising splitter/combiner (31, 32) adapted to split the first and the second main transmission path parts into a first (35) and a second (36) group of intermediate paths, respectively, for transmission per group of intermediate paths of different carrier signals over different intermediate transmission paths, the intermediate coupling device further comprising a switch means (33, 42, 47) arranged to connect an intermediate path of the second group alternatively to an intermediate path of the first group or to a further peripheral device.
- 4 Advantage: An expanding of the system by adding a peripheral device may be performed without putting the system out of operation.

#### **EXAMINATION REPORT - SEPARATE SHEET**

#### Article 6 PCT: 5

- The features introduced in bold in sections 2 and 3 above are considered to be necessary clarifications of claim 4 for the following reasons:
  - The subject-matter of claim 4 should make clear that the intermediate a1) coupling device is part of the network of antennas which in turn is part of the claimed transmission system, thus making clear that the intermediate coupling device is part of the transmission system.
  - a2) The subject-matter of claim 4 should make clear that the "or" in the last line of claim 4 is not dividing two optional features, but defining two alternative positions of a switching means.
  - a3) Since claim 4 relates to an apparatus, and not to a method, the features should be defined as apparatus features.
- Corresponding amendments, except a3), apply to method claim 1. b)
- In the claims, "antenna's" should have been replaced by "antennas". c)
- The cable referred to in claims 1 and 4 should have been given the reference d) signs "(17, 18)", and not "(7)".
- The preamble of claims 1 and 4 should have reflected the features which are 6 diclosed in D1, see above in section 2.
- Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art 7 disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.